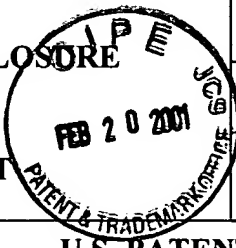


#3

<b>INFORMATION DISCLOSURE STATEMENT</b>  <b>BY APPLICANT</b>			Docket: 4239-54279	App: New
			Applicant: Dougherty et al.	
			Filed: Herewith	Art Unit:
<b>OTHER DOCUMENTS</b>				
LAC	/		Chen et al., <i>Proc SPIE</i> , "Clustering Analysis for Gene Expression Data," vol. 3602:422-8, 1999.	
LAC	/		Winston, <i>Artificial Intelligence</i> , "Learning by Training Perceptrons," Third Edition, Addison-Wesley Publishing Company, 1992.	
EXAMINER:			DATE: 9-9-02	
*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.				

**INFORMATION DISCLOSURE  
STATEMENT**
**BY APPLICANT**


Docket: 4239-54279

App: 09/595,580

Applicant: Dougherty

Filed: June 15, 2000

Art Unit: 2857

**U.S. PATENT DOCUMENTS**

Init.*		Number	Date	Name	Class	Sub	Filed
		5,708,591	1/13/98	Givens et al.			
		5,769,074	6/23/98	Barnhill et al.			
		6,025,128	2/15/00	Veltri et al.			
		6,040,138	3/21/00	Lockhart et al.			
		5,968,784	10/19/99	Spinella et al.			
		6,059,561	5/9/00	Becker			

**RECEIVED**  
FEB 26 2001  
TECH CENTER 1600/2900

**U.S. PATENT APPLICATIONS**

		Number	Date	Name	Art Unit		
		09/407,021	09/28/99	Chen et al.	1631		

**OTHER DOCUMENTS**


EXAMINER:

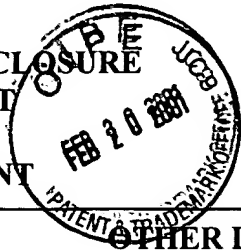
DATE

\*Examiner: Initial if considered, whether or not in conformance with MPEP 60;  
draw line through cite if not in conformance and not considered. Send copy.



**INFORMATION DISCLOSURE  
STATEMENT**

**BY APPLICANT**



Docket: 4239-54279

App: 09/595,580

Applicant: Dougherty

Filed: June 15, 2000

Art Unit: 2857

**OTHER DOCUMENTS**

Michaels et al., "Cluster Analysis and Data Visualization of Large-Scale Gene Expression Data," *Pacific Symposium on Biocomputing* Vol. 3, pp. 42-53, 1998.

Liang, "Reveal, A General Reverse Engineering Algorithm for Inference of Genetic Network Architectures," *Pacific Symposium on Biocomputing* Vol. 3, pp. 18-29, 1998.

Zhang et al., "Synthesis of Sigma-Pi Neural Networks by the Breeder Genetic Programming," *Proc. of Int. Conf. on Evolutionary Computation, IEEE*, pp. 318-323, 1994.

Frenkel, "The Human Genome Project and Informatics," *Communications of the ACM*, Vol. 34, No. 11, November 1991.

Manly, *Multivariate Statistical Methods*, Chapman and Hall Ltd., pp. 1-109, 1986.

**RECEIVED**  
FEB 26 2001  
TECH CENTER 1600/2900

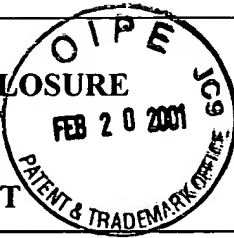
EXAMINER:

DATE

\*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.

**INFORMATION DISCLOSURE  
STATEMENT**

**BY APPLICANT**



Docket: 4239-54279

App: 09/595,580

Applicant: Dougherty

Filed: June 15, 2000

Art Unit: 2857

**OTHER DOCUMENTS**

Dougherty, *Random Processes for Image and Signal Processing*, SPIE Optical Engineering Press, pp. 451-481, 1999.

Dougherty (ed.), *Nonlinear Filters for Image Processing*, SPIE Optical Engineering Press, pp. 61-98, 1999.

Buhler, "Anatomy of a Comparative Gene Expression Study," <http://www.cs.washington.edu/homes/jbuhler/research/array/>, pp. 1-8, last update March 24, 2000.

Chen et al., "Ratio-Based Decisions and the Quantitative Analysis of cDNA Microarray Images," *J. Biomed. Optics* Vol. 2, pp. 364-374, October 1997.

D'haeseleer et al., "Mining the Gene Expression Matrix: Inferring Gene Relationships from Large Scale Gene Expression Data," *Information Processing in Cells and Tissues*, Paton et al. (eds.), Plenum Publishing, pp. 203-212, 1998.

DeRisi et al., "Use of a cDNA Microarray to Analyse Gene Expression Patterns in Human Cancer," *Nature Genetics* Vol. 14, pp. 457-460, December 1996.

Schena et al., "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes," *Proc. Natl. Acad. Sci., USA* Vol. 93, pp. 10614-10619, October 1996.

Dougherty et al., "Digital Measurement of Gene Expression in a cDNA Micro-Array," *SPIE* Vol. 3034, pp. 68-72, February 1997.

Zhou et al., *Microarray Biochip Technology*, BioTechniques Books, Schena (ed.), pp. 167-200, May 2000.

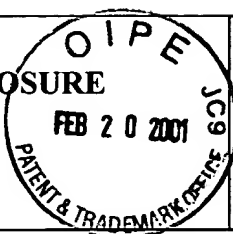
EXAMINER:

DATE

\*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.

**INFORMATION DISCLOSURE  
STATEMENT**

**BY APPLICANT**



Docket: 4239-54279

App: 09/595,580

Applicant: Dougherty

Filed: June 15, 2000

Art Unit: 2857

**OTHER DOCUMENTS**

Baldi et al., *Bioinformatics: The Machine Learning Approach*, MIT Press, pp. 91-105, 1999.

Baldi et al., *Bioinformatics: The Machine Learning Approach*, MIT Press, pp. 105-141, 1999.

Devroye et al., *A Probabilistic Theory of Pattern Recognition*, pp. 507-547, 1999.

Jordan, *The Computer Science Engineering Handbook*, Tucker (ed.), CRC Press, 536-556, 1997.

sci.nonlinear FAQ, *About Sci.nonlinear FAQ and Basic Theory* available at <http://www.enm.bris.ac.uk/research/nonlinear/faq.html>, May 1999.

Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," *Science* Vol. 270, pp. 467-470, October 20, 1995.

D'Haeseleer et al., "Linear Modeling of mRNA Expression Levels During DNA Development and Injury," *Pac. Symp. Biocomput.*, pp. 41-52, 1999.

Eisen et al., "Cluster Analysis and Display of Genome-Wide Expression Patterns," *Proc. Natl. Acad. Sci. USA* Vol. 95, pp. 14863-14868, December 1998.

Eissa et al., "Multivariate Analysis of DNA Ploidy, p53, c-erbB-2 Proteins, EGFR, and Steroid Hormone Receptors for Prediction of Poor Short Term Prognosis in Breast Cancer," *Anticancer Res.* Vol. 17, pp. 1417-1424, 1997.

EXAMINER:

DATE

\*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.

RECEIVED  
FEB 26 2001

RECEIVED  
FEB 26 2001

TECH CENTER 1800/2900

TECH CENTER 1800/2900

**INFORMATION DISCLOSURE  
STATEMENT**
**BY APPLICANT**

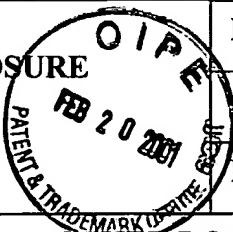
Docket: 4239-54279

App: 09/595,580

Applicant: Dougherty

Filed: June 15, 2000

Art Unit: 2857


**OTHER DOCUMENTS**

Marchevsky et al., "Reasoning with Uncertainty in Pathology: Artificial Neural Networks and Logistic Regression as Tools for Prediction of Lymph Node Status in Breast Cancer Patients," *Mod. Pathol.* Vol. 12, No. 5, pp. 505-513, 1999.

Shimizu et al., "Bioprocess Fault Detection by Nonlinear Multivariate Analysis: Application of an Artificial Autoassociative Neural Network and Wavelet Filter Bank," *Biotechnol. Prog.* Vol. 14, pp. 79-87, 1998.

Spellman et al., "Comprehensive Identification of Cell-Cycle-Regulated Genes of the Yeast *Saccharomyces cerevisiae* by Microarray Hybridization," *Mol. Biol. Cell* Vol. 9, pp. 3273-3297, December 1998.

Spyratos et al., "Multiparametric Prognostic Evaluation of Biological Factors in Primary Breast Cancer," *J. Natl. Cancer Inst.* Vol. 84, pp. 1266-1272, 1992.

Tavozic et al., "Systematic Determination of Genetic Network Architecture," *Nature Genetics* Vol. 22, pp. 281-285, July 1999.

Kingsbury, "Computational Biology," *The Computer Science and Engineering Handbook*, Tucker (ed.), CRC Press, pp. 959-975, 1997.

**RECEIVED**  
FEB 26 2001  
TECH CENTER 1600/2900

EXAMINER:

DATE

\*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.